

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 8, 1969

Operator El Paso Natural Gas		Lease Michener No. 5	
Location 1840'S. 1180'E, S-15; T-26N; R-9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2350	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 2253	To 2275	Total Depth: 2375	Shut In 5-1-69
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 693	+ 12 = PSIA 705	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA -----	
Flowing Pressure: P PSIG 179	+ 12 = PSIA 191		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 230	
Temperature: T = 60 °F	F = 1.0000	n = .85	F _p (From Tables) 1.017	Gravity .650	F _g = .9608

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_t \times F_g \times F_{pv}$$

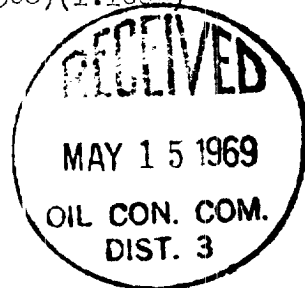
$$Q = (12.365)(191)(1.0000)(.9608)(1.017) = 2308 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

Note: The well produced dry gas throughout the test.

$$Aof = \left(\frac{497025}{444125} \right)^n = (2308)(1.1191)^{.85} = (2308)(1.1004)$$

$$Aof = 2540 \text{ MCF/D}$$



TESTED BY D. N.
 Calculated
 WITNESSED BY H. E. M.

H. L. Kendrick
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